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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/671,846	09/25/2003	Eugene George Olczak	133074-1	8697
22428 FOLEY AND 1	7590 01/18/200° LARDNER LLP	EXAMINER		
SUITE 500		CHEVALIER, ALICIA ANN		
3000 K STREE WASHINGTO	•		ART UNIT	PAPER NUMBER
	,		1772	
				
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		01/18/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

						
	Application No.	Applicant(s)				
	10/671,846	OLCZAK ET AL.				
Office Action Summary	Examiner	Art Unit				
	Alicia Chevalier	1772				
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet wi	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory peni - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNION 1.136(a). In no event, however, may a rood will apply and will expire SIX (6) MON tute, cause the application to become AB	CATION. eply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 25	October 2006.					
· _ ·						
3) Since this application is in condition for allow						
closed in accordance with the practice unde	r <i>Ex parte Quayl</i> e, 1935 C.D	. 11, 453 O.G. 213.				
Disposition of Claims						
4) ☐ Claim(s) 2-13 and 29-38 is/are pending in the 4a) Of the above claim(s) is/are withd 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 2-13 and 29-38 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	rawn from consideration.					
Application Papers						
9) The specification is objected to by the Exami 10) The drawing(s) filed on is/are: a) a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the	ccepted or b) objected to line drawing(s) be held in abeyant ection is required if the drawing	ce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119		•				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a life.	ents have been received. ents have been received in A riority documents have been eau (PCT Rule 17.2(a)).	pplication No received in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892)	A) 🗆 Intonious S	ummary (PTO-413)				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Date formal Patent Application				

Art Unit: 1772

RESPONSE TO AMENDMENT

Request for Continued Examination

- 1. The Request for Continued Examination (RCE) under 37 CFR 1.53 (d) filed on October 25, 2006 is acceptable and a RCE has been established. An action on the RCE follows.
- 2. Claims 2-13 and 29-38 are pending in the application, claims 14-28 have been cancelled.
- 3. Amendments to the claims, filed on October 25, 2006, have been entered in the above-identified application.

NEW REJECTIONS

4. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 103

5. Claims 2-13 and 29-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over McGrath (U.S. Patent No. 4,025,159) in view of Nilsen et al. (U.S. Patent No. 5,657,162).

McGrath discloses a multiplayer optical film (cellular retroreflective sheeting, title). The film comprises at least two component films (bass sheet and cover film, col. 3, lines 25-26). At least one of the component films (bass sheet) has an upper and lower surface (figure 3). The upper surface comprises a series of optical structures (mircospheres, col. 3, line 33) and a plurality of raised spacing structures (narrow intersecting bonds, col. 3, line 26). The lower

Application/Control Number: 10/671,846

Art Unit: 1772

surface is essentially planar (figure 3). The component films are joined so as to constitute a single structure comprising at least one gap disposed between the component films (figure 3).

Furthermore, the gap is deemed to be greater than the coherent length of light used to illuminate the optical film since the reference discloses that same height for the spacing structures as claimed by Applicant. See the discussion below regarding claim 7. Furthermore, Applicant's specification on page 7, paragraph [0020] recites that the gap between surfaces should be greater than the coherent length of the light source, typically no less than a few microns.

McGrath fails to discloses that there is a second component film.

Nilsen discloses a retroreflective article with multiple prism locations (*title*). Figure 5 shoes that multiple layers of retroreflective sheeting can be stacked to create different design patterns (*col. 5, lines 13-60*).

It would have been obvious to one of ordinary skill in the art at the time of the invention to stack multiple layers of McGrath as taught be Nilsen in order to create different design patterns.

When layers of McGrath are stacked they will create the claim first and second component film structural arrangement.

The preamble/limitation "backlighting display" is deemed to be a statement with regard to the intended use and is not further limiting in so far as the structure of the product is concerned. In article claims, a claimed intended use must result in a *structural difference* between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. MPEP § 2111.02.

Art Unit: 1772

McGrath discloses that the optical structures are convex and concave structures (mircospheres, col. 3, line 33 and figure 3). McGrath discloses that the optical structures are prisms, since the reference discloses cube-corner elements can be interchangeable used with the microspheres (col. 6, lines 13-20 and figure 7). McGrath discloses that the raised spacing structures comprise at least one post-structure and/or at least one beam structure (narrow intersection bonds, col. 3, line 26 and figures 1, 3 and 7). McGrath discloses that the spacing structures have a height relative to the optical structures between about 0.1 and about 20 microns, since the reference shows in figure 3 that the spacing structure, i.e. narrow intersection bonds, have a height of half the diameter of the optical structures, i.e. microspheres, and the diameter of the microspheres is between 10 and 200 micrometers (col. 5, lines 29-30), which means that the height of the narrow intersection bonds is between 5 to 100 microns. McGrath discloses that the raised spacing structures comprise at least one post-structure (narrow intersection bonds, col. 3, line 26 and figures 1, 3 and 7). McGrath discloses that the component films have a thickness between about 0.006 and about 5 millimeters, since the reference discloses that the base sheet has a thickness of 75 micrometers (col. 6, lines 60-61) and the cover film has a thickness between 1 and 5 mils (col. 5, line 14), which together have a thickness of 100.4-203 micrometers or 0.1 to 0.2 mm. McGrath discloses that the gap comprises solid matter, fluid matter and combinations thereof, since the reference discloses that air, i.e. a fluid, in the gaps (col. 3, lines 23-30). McGrath discloses that the raised spacing structures have either equal or unequal heights relative to the optical structures (figures 3 and 7). Figure 3 in McGrath shows that the raised spacing structures occupy an area, the area is deemed to define a percentage of a total area of the film surface upon which the raised spacing structures are disposed.

Art Unit: 1772

Furthermore, it can be seen from figure 1 that the percentage is in the range between about 1 and about 50.

ANSWERS TO APPLICANT'S ARGUMENTS

6. Applicant's arguments in response filed October 25, 2006 regarding the previous rejections of record have been carefully considered but are moot in view of the new grounds of rejection.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alicia Chevalier whose telephone number is (571) 272-1490. The examiner can normally be reached on Monday through Friday from 8:00 am to 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon, can be reached on (571) 272-1498. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ac 1/9/07

ALICIA CHEVALIER PRIMARY EXAMINER